

Geologic Units and Contacts of Natural Bridges National Monument and Vicinity,
Utah

Identification_Information:

Citation:

Citation_Information:

Originator: National Park Service Geologic Resources Inventory (GRI)
program.

Publication_Date: Unpublished Material

Title: Geologic Units and Contacts of Natural Bridges National Monument
and Vicinity, Utah (NPS, GRI, NABR, NABRGLG)

Edition: 1st

Geospatial_Data_Presentation_Form: vector digital data

Larger_Work_Citation:

Citation_Information:

Originator: National Park Service Geologic Resources Inventory (GRI)
program.

Publication_Date: 20010301

Title: Geologic Map of Natural Bridges National Monument and Vicinity,
Utah

Description:

Abstract: The Geologic Units and Contacts of Natural Bridges National
Monument and Vicinity, Utah data (NABRGLG) consists of area (polygon) geologic
units and the contacts/map boundary that defines those areas (polygons). The
data were completed as a component of the Geologic Resources Inventory (GRI), a
co-operative program between the Natural Resources Information Division (NRID)
Inventory and Monitoring Program (IM) and the Geologic Resources Division (GRD)
of the National Park Service (NPS). The spatial data (coverage/theme) was
produced from an .E00 coverage with area geologic units and contact arcs. The
'new' coverage/theme (NABRGLG/NABRGLGA) was attributed as per the NPS GIS-
Geology Data Model. An indexed ArcInfo .E00 (export) coverage file and an
ArcView 3.2 .SHP theme were then also created. The coverage/theme is within the
area of interest of Natural Bridges National Monument. The coverage/theme is in
NAD83, UTM Zone 12N.

Purpose: Data intended to assist NPS personnel in the protection and
management of Natural Bridges National Monument.

Supplemental_Information: The Geologic Units and Contacts of Natural Bridges
National Monument and Vicinity, Utah coverage/theme (NABRGLG/NABRGLGA) is a
component of the Geologic Map of Natural Bridges National Monument and Vicinity,
Utah. Other coverages/themes that comprise the Geologic Map of Natural Bridges
National Monument and Vicinity, Utah include: NABRATD (geologic attitude
observation points), NABRSEC (geologic cross section lines) and NABRUPF (unique
geologic point features). Two accessory data tables, NABRGLG1 (accessory
geologic unit data) and NABRMAP (source map information), are also considered
map components.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20010301

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -110.050324

East_Bounding_Coordinate: -109.963108

North_Bounding_Coordinate: 37.636856
 South_Bounding_Coordinate: 37.568448
 Keywords:
 Theme:
 Theme_Keyword_Thesaurus: none
 Theme_Keyword: Natural Bridges National Monument
 Theme_Keyword: Utah
 Theme_Keyword: geology
 Theme_Keyword: geologic units
 Theme_Keyword: geologic contacts
 Theme_Keyword: GLG
 Theme_Keyword: NABRGLG
 Theme_Keyword: National Park Service
 Theme_Keyword: NPS
 Theme_Keyword: Geologic Resources Inventory
 Theme_Keyword: GRI
 Place:
 Place_Keyword_Thesaurus: none
 Place_Keyword: Natural Bridges National Monument
 Place_Keyword: Utah
 Place_Keyword: United States
 Place_Keyword: US
 Place_Keyword: USA
 Place_Keyword: North America
 Place_Keyword: NABR
 Access_Constraints: None
 Use_Constraints: Not for use at scale greater than 1:24,000.
 Point_of_Contact:
 Contact_Information:
 Contact_Person_Primary:
 Contact_Person: Stephanie O'Meara
 Contact_Organization: Colorado State University
 Contact_Position: Research Associate, Geologist/GIS Specialist
 Contact_Address:
 Address_Type: mailing and physical address
 Address: 1201 Oak Ridge Drive, Suite 200
 City: Fort Collins
 State_or_Province: Colorado
 Postal_Code: 80525
 Country: USA
 Contact_Voice_Telephone: (970) 225-3584
 Contact_Facsimile_Telephone: (970) 225-3585
 Contact_Electronic_Mail_Address: Stephanie_O'Meara@nps.gov
 Hours_of_Service: 9:00 a.m. to 5:00 p.m. (MST), Monday - Friday
 Data_Set_Credit: Jaqueline E. Huntoon (Michigan Technological University).
 Native_Data_Set_Environment: Windows NT Version 4.0 (Build 1381) Service Pack 6; ESRI ArcInfo 8.1.0.415
 Data_Quality_Information:
 Attribute_Accuracy:
 Attribute_Accuracy_Report: Attribution was derived from a source .E00 file.
 Users of this data are advised to FULLY and CAREFULLY READ the "DISTRIBUTION LIABILITY" section of this metadata before using the data.
 Logical_Consistency_Report: Arc 'topology' present.
 Completeness_Report: Data is considered complete to the extent of the unpublished source map.
 Positional_Accuracy:
 Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report: Data is assumed to meet National Map Accuracy standards. The PRECISION of the ArcInfo coverage .E00/ArcView .SHP theme file is DOUBLE.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: Huntoon, Jacqueline E.

Publication_Date: 2000

Title: Geologic Map of Natural Bridges National Monument and Vicinity,
Utah

Edition: 1st

Geospatial_Data_Presentation_Form: map

Other_Citation_Details: Huntoon, Jacqueline E., 2000, Geologic Map of Natural Bridges National Monument and Vicinity, Utah, Michigan Technological University, unpublished, 1:24,000 scale

Source_Scale_Denominator: 24000

Type_of_Source_Media: paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2000

Source_Currentness_Reference: ground condition

Source_Citation_Abbreviation: unpublished Michigan Technological University source map (Huntoon, Jacqueline E., 2000, Geologic Map of Natural Bridges National Monument, Utah, Michigan Technological University, unpublished, 1:24,000 scale)

Source_Contribution: All geologic contact and map boundary arcs were captured (digitized) from the source map. NPS GIS-Geology Data Model attribution was derived from source attribution.

Process_Step:

Process_Description: Geologic contact and map boundary arcs were captured (digitized) from the source map. An ArcInfo coverage (NABRGLG/NABRGLGA) was created from an .E00 file with area geologic units and contacts spatial and attribute data. Coverage topology (ArcInfo BUILD command) was then constructed and NPS GIS-Geology Data Model attribute fields added (ArcInfo ADDITEM command). Data Model attribution was derived from 'inherited' attribute fields. The data were then 're-projected' (ArcInfo PROJECT command) into NAD83, UTM Zone 12N. An indexed (ArcInfo INDEX command) ArcInfo .E00 (export) coverage file and an ArcView 3.2 .SHP theme were then also created.

Source_Used_Citation_Abbreviation: Huntoon, Jacqueline E., 2000, Geologic Map of Natural Bridges National Monument and Vicinity, Utah, Michigan Technological University, unpublished, 1:24,000 scale

Process_Date: 20010301

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Stephanie O'Meara

Contact_Organization: Colorado State University

Contact_Position: Research Associate, Geologist/GIS Specialist

Contact_Address:

Address_Type: mailing and physical address

Address: 1201 Oak Ridge Drive, Suite 200

City: Fort Collins

State_or_Province: Colorado

Postal_Code: 80525

Country: USA

Contact_Voice_Telephone: (970) 225-3584
 Contact_Facsimile_Telephone: (970) 225-3585
 Contact_Electronic_Mail_Address: Stephanie_O'Meara@nps.gov
 Hours_of_Service: 9:00 a.m. to 5:00 p.m. (MST), Monday - Friday

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Complete chain

Point_and_Vector_Object_Count: 37

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 14

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains

Point_and_Vector_Object_Count: 14

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Point

Point_and_Vector_Object_Count: 4

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Map_Projection:

Map_Projection_Name: Transverse Mercator

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.999600

Longitude_of_Central_Meridian: -111.000000

Latitude_of_Projection_Origin: 0.0

False_Easting: 500000.000000

False_Northing: 0.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 0.000016

Ordinate_Resolution: 0.000016

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137.000000

Denominator_of_Flattening_Ratio: 298.257222

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: nabrglg.aat/nabrglga.dbf

Entity_Type_Definition: Geologic Contacts/Map Boundary arc attribute table

Entity_Type_Definition_Source: ArcInfo 8.1

Attribute:

Attribute_Label: FID

Attribute_Definition: Feature identification number

Attribute_Definition_Source: ArcInfo 8.1

Attribute_Domain_Values:

Unrepresentable_Domain: Unique feature identification integer

Attribute:

Attribute_Label: SHAPE

Attribute_Definition: Representation of the entity in the data

Attribute_Definition_Source: ArcInfo 8.1

Attribute_Domain_Values:
 Unrepresentable_Domain: Shape entity type
 Attribute:
 Attribute_Label: FNODE#
 Attribute_Definition: Internal sequence number of the from-node
 Attribute_Definition_Source: ArcInfo 8.1
 Attribute_Domain_Values:
 Unrepresentable_Domain: Internal from-node integer
 Attribute:
 Attribute_Label: TNODE#
 Attribute_Definition: Internal sequence number of the to-node
 Attribute_Definition_Source: ArcInfo 8.1
 Attribute_Domain_Values:
 Unrepresentable_Domain: Internal to-node integer
 Attribute:
 Attribute_Label: LPOLY#
 Attribute_Definition: Internal sequence number of the left polygon
 Attribute_Definition_Source: ArcInfo 8.1
 Attribute_Domain_Values:
 Unrepresentable_Domain: Internal left-polygon integer
 Attribute:
 Attribute_Label: RPOLY#
 Attribute_Definition: Internal sequence number of the right polygon
 Attribute_Definition_Source: ArcInfo 8.1
 Attribute_Domain_Values:
 Unrepresentable_Domain: Internal right-polygon integer
 Attribute:
 Attribute_Label: LENGTH
 Attribute_Definition: Length of arc feature
 Attribute_Definition_Source: ArcInfo 8.1
 Attribute_Domain_Values:
 Unrepresentable_Domain: Length of feature
 Attribute:
 Attribute_Label: NABRGLG#
 Attribute_Definition: Internal feature number
 Attribute_Definition_Source: ArcInfo 8.1
 Attribute_Domain_Values:
 Unrepresentable_Domain: Unique internal identification integer
 Attribute:
 Attribute_Label: NABRGLG-ID
 Attribute_Definition: Feature user identification number
 Attribute_Definition_Source: ArcInfo 8.1
 Attribute_Domain_Values:
 Unrepresentable_Domain: User-defined identification integer
 Attribute:
 Attribute_Label: GLGCNT_IDX
 Attribute_Definition: Unique identification number
 Attribute_Definition_Source: NPS GIS-Geology Data Model
 Attribute_Domain_Values:
 Unrepresentable_Domain: Unique identification integer
 Attribute:
 Attribute_Label: GLGCNT_TYP
 Attribute_Definition: Code value that designates the positional accuracy
 and/or concealment of a contact/map boundary arc
 Attribute_Definition_Source: NPS GIS-Geology Data Model
 Attribute_Domain_Values:
 Codeset_Domain:

Codeset_Name: Geologic contact/map boundary code value
 Codeset_Source: NPS Geology-GIS Data Model
 Attribute:
 Attribute_Label: FLTCNT
 Attribute_Definition: Designates contact arcs that are also geologic faults
 Attribute_Definition_Source: NPS GIS-Geology Data Model
 Attribute_Domain_Values:
 Codeset_Domain:
 Codeset_Name: Geologic contact/fault code value
 Codeset_Source: NPS Geology-GIS Data Model
 Attribute:
 Attribute_Label: GMAP_ID
 Attribute_Definition: Unique integer value assigned to the source map in the GRI GMAP_ID Database
 Attribute_Definition_Source: NPS GIS-Geology Data Model
 Attribute_Domain_Values:
 Unrepresentable_Domain: Unique integer value assigned to the source map in the GRI GMAP_ID database (see <PC>MAP information look-up table)
 Detailed_Description:
 Entity_Type:
 Entity_Type_Label: nabrglg.pat/nabrglg.dbf
 Entity_Type_Definition: Area (polygon) Geologic Unit polygon attribute table
 Entity_Type_Definition_Source: ArcInfo 8.1
 Attribute:
 Attribute_Label: FID
 Attribute_Definition: Feature identification number
 Attribute_Definition_Source: ArcInfo 8.1
 Attribute_Domain_Values:
 Unrepresentable_Domain: Unique feature identification integer
 Attribute:
 Attribute_Label: SHAPE
 Attribute_Definition: Representation of the entity in the data
 Attribute_Definition_Source: ArcInfo 8.1
 Attribute_Domain_Values:
 Unrepresentable_Domain: Shape entity type
 Attribute:
 Attribute_Label: AREA
 Attribute_Definition: Area of feature
 Attribute_Definition_Source: ArcInfo 8.1
 Attribute_Domain_Values:
 Unrepresentable_Domain: Area of feature
 Attribute:
 Attribute_Label: PERIMETER
 Attribute_Definition: Perimeter of feature
 Attribute_Definition_Source: ArcInfo 8.1
 Attribute_Domain_Values:
 Unrepresentable_Domain: Perimeter of feature
 Attribute:
 Attribute_Label: NABRGLG#
 Attribute_Definition: Internal feature number
 Attribute_Definition_Source: ArcInfo 8.1
 Attribute_Domain_Values:
 Unrepresentable_Domain: Unique internal identification integer
 Attribute:
 Attribute_Label: NABRGLG-ID

Attribute_Definition: Feature user identification number
 Attribute_Definition_Source: ArcInfo 8.1
 Attribute_Domain_Values:
 Unrepresentable_Domain: User-defined identification integer
 Attribute:
 Attribute_Label: GLG_IDX
 Attribute_Definition: Unique identification number
 Attribute_Definition_Source: NPS GIS-Geology Data Model
 Attribute_Domain_Values:
 Unrepresentable_Domain: Unique identification integer
 Attribute:
 Attribute_Label: GLG_SYM
 Attribute_Definition: Age-lithology symbol/code of geologic unit
 Attribute_Definition_Source: NPS GIS-Geology Data Model
 Attribute_Domain_Values:
 Unrepresentable_Domain: Geologic symbol of geologic unit
 Attribute:
 Attribute_Label: USGS_SYM
 Attribute_Definition: USGS Age-lithology symbol/code of geologic unit
 Attribute_Definition_Source: NPS GIS-Geology Data Model
 Attribute_Domain_Values:
 Unrepresentable_Domain: USGS Geologic symbol of geologic unit
 Attribute:
 Attribute_Label: GLG_AGE_NO
 Attribute_Definition: Value used to age-sort geologic units from youngest
 (low) to oldest (high)
 Attribute_Definition_Source: NPS GIS-Geology Data Model
 Attribute_Domain_Values:
 Unrepresentable_Domain: Age-sort number of geologic unit
 Attribute:
 Attribute_Label: GMAP_ID
 Attribute_Definition: Unique integer value assigned to the source map in
 the GRI GMAP_ID Database
 Attribute_Definition_Source: NPS GIS-Geology Data Model
 Attribute_Domain_Values:
 Unrepresentable_Domain: Unique integer value assigned to the source map
 in the GRI GMAP_ID database (see <PC>MAP information look-up table)
 Attribute:
 Attribute_Label: HELP_ID
 Attribute_Definition: Text field used to establish a connection to a
 Windows Help File to display textual and/or graphical information on map feature
 Attribute_Definition_Source: NPS GIS-Geology Data Model
 Attribute_Domain_Values:
 Unrepresentable_Domain: Text field used to 'link' to a Windows Help File
 with supplementary information
 Distribution_Information:
 Distributor:
 Contact_Information:
 Contact_Person_Primary:
 Contact_Person: Tim Connors
 Contact_Organization: National Park Service Geologic Resources Division
 Contact_Position: Geologist
 Contact_Address:
 Address_Type: mailing and physical address
 Address: 12795 West Alameda Parkway
 City: Lakewood
 State_or_Province: Colorado

Postal_Code: 80227
 Country: USA
 Contact_Address:
 Address_Type: mailing address
 Address: P.O. Box 25287
 City: Denver
 State_or_Province: Colorado
 Postal_Code: 80225-0287
 Country: USA
 Contact_Voice_Telephone: (303) 969-2093
 Contact_Facsimile_Telephone: (303) 969-6998
 Contact_Electronic_Mail_Address: Tim_Connors@nps.gov
 Hours_of_Service: 8:00 a.m. to 4:00 p.m. (MST), Monday - Friday
 Contact_Instructions: Data are available at the NPS IM GIS FTP Site:
<ftp://gis01.nature.nps.gov/nabr/data/nrdata/geology/gis>
 Resource_Description: NABRGRE.ZIP (ArcInfo coverages) or NABGRS.ZIP (ArcView .SHP theme files)
 Distribution_Liability:
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The information contained in these data is dynamic and may change over time. The data are not better than the original sources from which they were derived. It is the responsibility of the data user to use the data appropriately and consistent within the limitations of geospatial data in general and these data in particular. The related graphics are intended to aid the data user in acquiring relevant data; it is not appropriate to use the related graphics as data.

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Standard_Order_Process:
 Digital_Form:
 Digital_Transfer_Information:
 Format_Name: ARC/SHP
 Format_Version_Number: 8.0/3.2
 Format_Specification: .e00 or .SHP files
 File-Decompression_Technique: No compression applied
 Transfer_Size: 0.055
 Digital_Transfer_Option:
 Online_Option:
 Computer_Contact_Information:
 Network_Address:
 Network_Resource_Name:
<ftp://gis01.nature.nps.gov/nabr/data/nrdata/geology/gis>
 Access_Instructions: Download metadata or WINZIP 7.0 .ZIP file with data and metadata.
 Fees: None

Ordering_Instructions: Download data at:
ftp://gis01.nature.nps.gov/nabr/data/nrdata/geology/gis
Available_Time_Period:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 20010301
Metadata_Reference_Information:
Metadata_Date: 20011004
Metadata_Review_Date: 20010301
Metadata_Future_Review_Date: 20020301
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Stephanie O'Meara
Contact_Organization: Colorado State University
Contact_Position: Research Associate, Geologist/GIS Specialist
Contact_Address:
Address_Type: mailing and physical address
Address: 1201 Oak Ridge Drive, Suite 200
City: Fort Collins
State_or_Province: Colorado
Postal_Code: 80525
Country: USA
Contact_Voice_Telephone: (970) 225-3584
Contact_Facsimile_Telephone: (970) 225-3585
Contact_Electronic_Mail_Address: Stephanie_O'Meara@nps.gov
Hours_of_Service: 9:00 a.m. to 5:00 p.m. (MST), Monday - Friday
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Access_Constraints: None
Metadata_Use_Constraints: None
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile